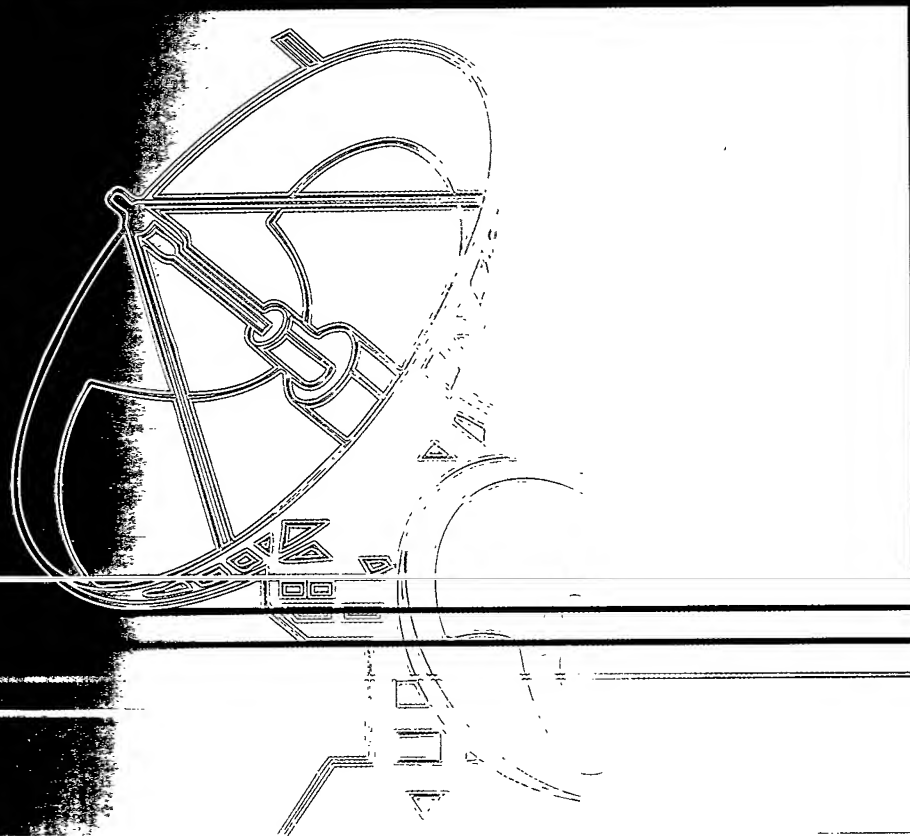
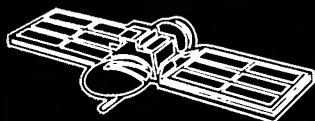


PHILIPS



Installation

Einstellung

Installation

Installazione

Installacion

Installatie

Instalação



STU 909

PHILIPS

SATELLITE FREQUENCY CONVERSION TABLE

Satellite Tuner IF Freq. (MHz)	Transmitter Freq. (Band I) (GHz)	Transmitter Freq. (Band II) (GHz)
977	10,977	11,727
997	10,997	11,747
1016	11,016	11,766
1035	11,035	11,785
1054	11,054	11,804
1073	11,073	11,823
1094	11,094	11,844
1112	11,112	11,862
1131	11,131	11,881
1150	11,150	11,900
1169	11,169	11,919
1188	11,188	11,938
1208	11,208	11,958
1227	11,227	11,977
1246	11,246	11,996
1265	11,265	12,015
1284	11,284	12,034
1304	11,304	12,054
1323	11,323	12,073
1342	11,342	12,092
1361	11,361	12,111
1380	11,380	12,130
1399	11,399	12,149
1419	11,419	12,169
1438	11,438	12,188
1457	11,457	12,207
1476	11,476	12,226
1495	11,495	12,245
1515	11,515	12,265
1534	11,534	12,284
1553	11,553	12,303
1572	11,572	12,322
1591	11,591	12,341
1610	11,610	12,360
1630	11,630	12,380
1649	11,649	12,399
1668	11,668	12,418
1687	11,687	12,437
1706	11,706	12,456
1726	11,726	12,476
1745	-	12,495
1764	-	12,514
1783	-	12,533
1802	-	12,552
1822	-	12,572
1841	-	12,591
1860	-	12,610
1879	-	12,629
1898	-	12,648
1918	-	12,668
1937	-	12,637
1956	-	12,706
1975	-	12,725
1994	-	12,744

This table has been calculated for Philips Low Noise Converters, with the following characteristics:

Frequency band I:

10.950 - 11.700 GHz (Astra, Eutelsat, etc.)
Local Oscillator Frequency of Low Noise Converter: 10,000 GHz

Frequency band II:

11.700 - 12.750 GHz (TDF, TVSAT, TELE-X, Telecom Kopernikus, etc.)
Local Oscillator Frequency of Low Noise Converter: 10,750 GHz

STEREO	1	2	3
MHz	7.02 + 7.20	7.38 + 7.56	7.74 + 7.92

MONO LANGUAGE	1	2	3	4	5	6	7	8
MHz	6.50	7.02	7.20	7.38	7.56	7.74	7.92	5.8
	6.60							(Telecom)
	6.65							

Audio subcarriers in PAL or SECAM
SOUND SELECTION menu



INSTALLATION INSTRUCTIONS



INSTALLATIONSANLEITUNG



INSTRUCTIONS D'INSTALLATION



ISTRUZIONI PER INSTALLAZIONE



INSTRUCCIONES DE INSTALLACION



INSTALLATIE INSTRUKTIES



INSTRUÇÕES PARA A INSTALAÇÃO



Introduction

We hope you will enjoy using your new Philips STU 909 multi-standard satellite tuner. This tuner will open up an entire world of satellite TV reception; both of the new D2-MAC broadcasts and all today's conventional PAL transmissions. In particular, the STU will allow you to receive the increasing number of programmes broadcast in the new D2-MAC Wide-Screen 16:9 format.

You can use your Philips STU 909 satellite tuner with one or two fixed satellite dish antennae, or with a motor-controlled rotatable dish which will allow you to receive programmes from any satellite you wish, if your dish is suitable.

We advise that you ask your Philips dealer to handle the installation of your Philips satellite dish antenna and your STU 909 tuner.

Safety instructions

To avoid short-circuits, which may cause fire or electric shock, do not expose this Philips STU 909 receiver to rain or moisture.

Dangerous voltage inside. Do not open the cabinet. There are no user serviceable parts inside. Repairs should be carried out by qualified service personnel only.

NEVER connect or modify cables while the receiver is connected to the mains. Ensure that no objects or fluids pass through the ventilation openings. Do not put your receiver close to an external source of heat (radiator, etc.). Ensure that air can circulate freely through the ventilation openings of the receiver. Your receiver supplies 14 or 18 V DC voltage to your satellite dish antenna. Make sure you only connect your satellite dish to the satellite dish inputs, 27 and 28, and nothing else.

MAINS connection

Do not connect the receiver to the mains yet, but continue reading these Operating Instructions!

NEVER connect or modify cables while the receiver is connected to the mains.

Positioning your Philips STU 909

Satellite Tuner

The STU 909 is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

Choose a position some distance away from radiators or other sources of heat.

Leave a clear space of at least 3 cm all around the set for ventilation. Make sure that curtains, cupboards, etc. cannot obstruct the air flow through the ventilation openings.

Insert batteries in the remote control

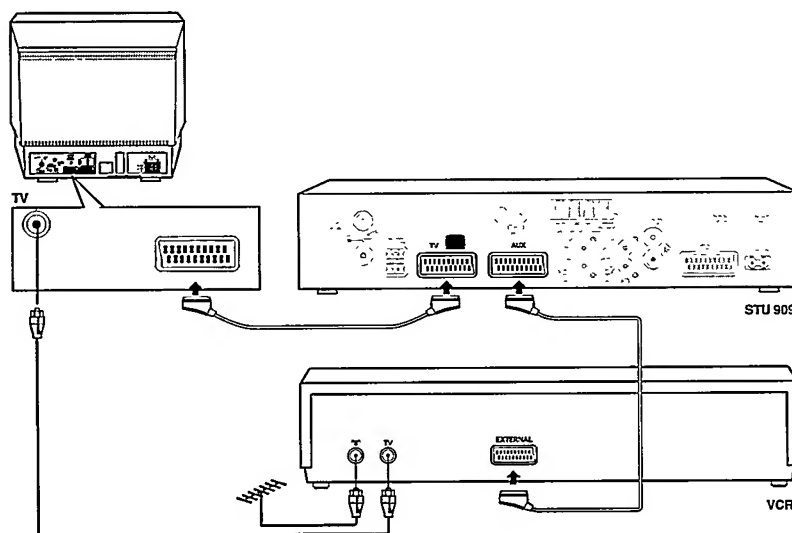
- Remove the battery cover located on the back of the remote control handset.
- Insert three batteries (type R03S 1.5 V).
- Replace the battery cover.

How to connect your TV/VCR

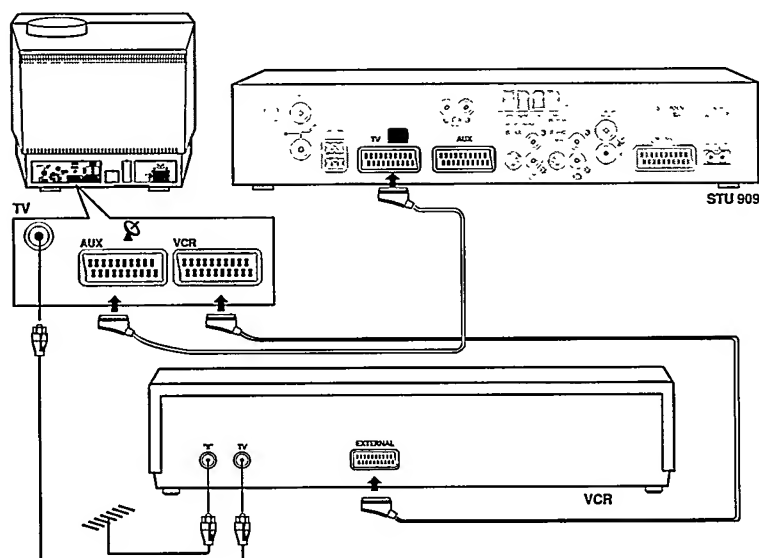
The connection descriptions which follow will cover most situations. However, the instruction manuals for some TV sets may propose alternative connection schemes. You should follow such instructions where applicable.

Using a Euroconnector gives the best picture and sound quality, especially with D2-MAC programmes.

1. To a TV and a VCR, using Euroconnectors



2. To a Philips TV with ML, PV or SL in its type number

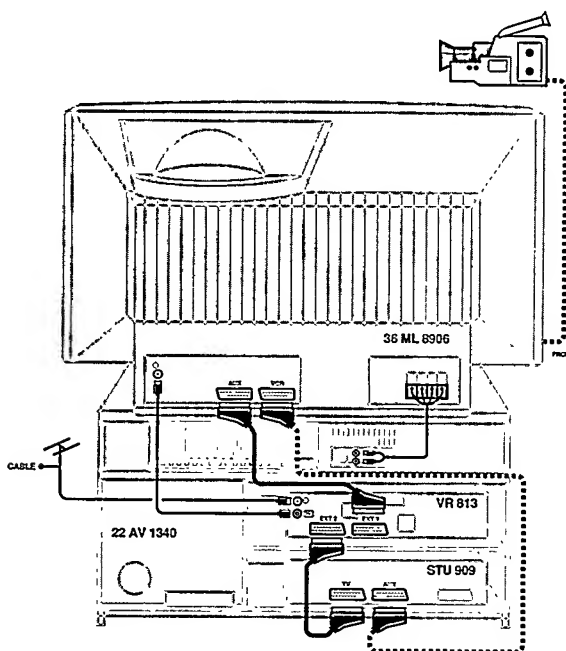


For PHILIPS TV sets with ML, PV or SL in the type number, except for the Wide-Screen 16:9 TV sets, it is recommended to use the connections as shown in the drawing and follow the instructions supplied with the TV set.

Note:

The VCR timer feature only works when the TV set is ON.

3. To a Philips Wide-Screen TV set (e.g. 36ML8906) and a Wide-Screen VCR (e.g. VR813)



In order to make automatic recording and display of D2-MAC Wide-Screen (16:9) pictures possible, a special configuration is recommended as shown in the drawing.


Note:

In the configuration menu, section 6, item 2 (Wide-Screen TV) needs to be 'YES'.

4. To a TV and a VCR using RF cables

- Connect the cable coming from your normal TV antenna (or cable-TV) to the input marked CABLE of your STU 909.
- Connect the **[TV]** output to your VCR antenna input using the RF cable delivered with your STU 909.
- Connect the VCR **[TV]** output to your TV.
- Connect your STU 909 to the mains.
- Press the ON switch.
- Press MENU on your remote control.
- Now tune your TV and VCR to the signal from the STU 909 until you see this picture. If necessary refer to the manual of your TV and VCR.
- Store the satellite signal under a programme number you do not have in use yet on your TV and VCR.

MAIN MENU	
1	PROGRAMME LIST
2	SATELLITE LIST
3	SOUND SELECTION
4	RECORD SELECTION
5	HEADPHONE
6	SPECIAL ITEMS
7	SUBTITLE SELECTION
8	PAY TV INFO
9	INSTALLATION
select: 1-9, off	

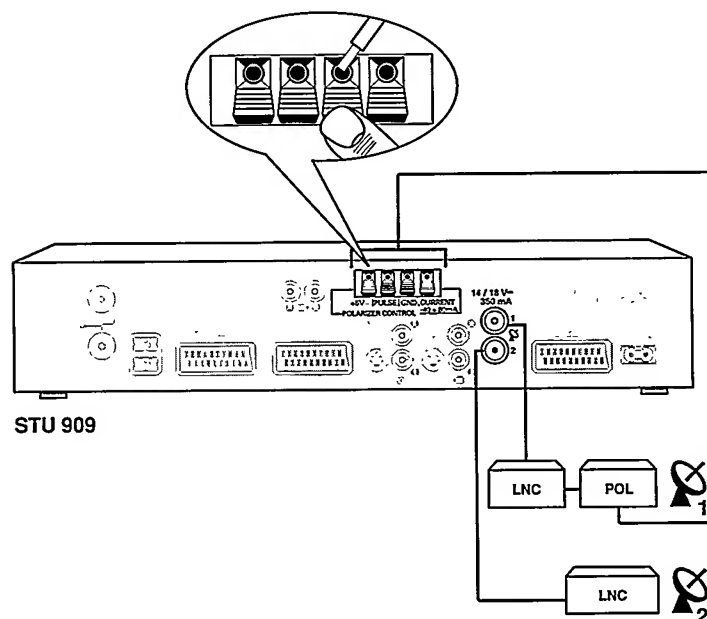
If patterning on this or any other programme on your TV occurs, you must slightly modify the position of the control marked  on the back of your STU 909, using a small screwdriver. Then tune again your TV and VCR.

- If you have any more connections to make, disconnect the STU 909 from the mains.

How to connect Satellite dishes

Dish inputs

One or two dish antennae can be connected to your satellite tuner as indicated in the drawing below.



Note:

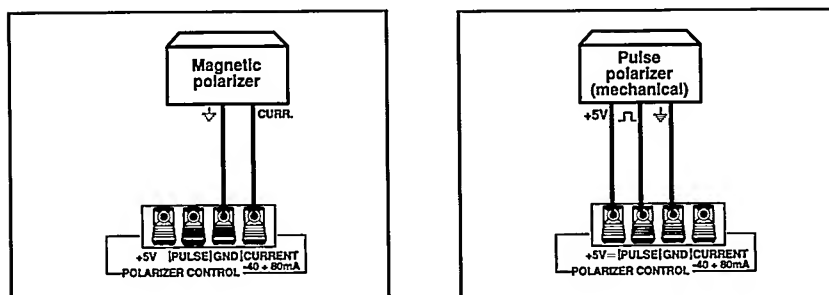
Before connecting satellite dishes you need to remove the red protection cap (if present) on the satellite dish inputs.
The connector for dish input 1 is supplied.

Polarizer

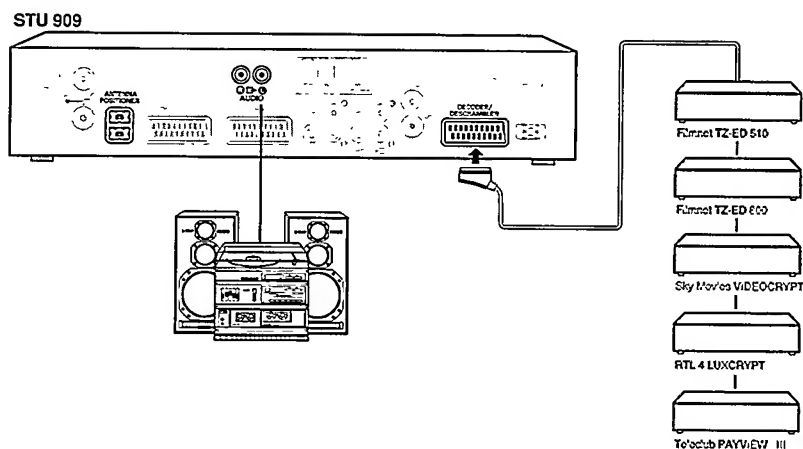
The STU 909 can control various kinds of polarizers. Please make sure that you connect them as indicated in the drawing.

Note:

It is recommended to make known to the satellite tuner the type of polarizer before you connect it. (see section 6: configuration).



Additional connections



Decoders/Descramblers

- Use connection 29
It is possible that certain combinations of TV sets and decoder/descramblers can have an adverse effect on teletext quality.
For more information, see the supplied booklet 'Connecting Descramblers and PAY TV Decoders to your Philips Satellite Tuner'.

Hi-Fi System

If you wish to use your Hi-Fi audio installation to listen to satellite radio sound programmes, you can connect it to the audio sockets 17.

- Connect the output sockets AUDIO L (left channel) and AUDIO R (right channel) to a pair of left and right input sockets on your Hi-Fi audio installation.

How to use the Installation menu

IMPORTANT

- This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.




Installation of your Satellite Tuner is done using on-screen information from a MENU.

Note:



For D2-MAC programmes, the coloured menu appears in the picture. For PAL programmes in most cases a black screen will appear. If the picture is needed for installation, the menu for PAL will be in black and white.

After connecting the mains plug, a lamp lights up in **red**. This indicates the STAND-BY position.


Switching your Satellite Tuner ON

- Press key  on the front of your Satellite Tuner.
- ▷ A lamp lights up in **green**
or:
- Press the programme  or  key on the Satellite Tuner.
- ▷ A lamp lights up in **green**.

On the remote control.

- Press switch  / 
- ▷ A lamp lights up in **green**.

Switching OFF

- Press key  on the Remote Control or Satellite Tuner.
- ▷ A lamp lights up in **red**.

Calling up the INSTALLATION menu

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes **green**

Switching off the menu

- Press key OFF

In the INSTALLATION mode, 6 items are available:

1. Menu language:

Selection of the required menu language

2. Configuration:

'Tells' the Satellite Tuner what equipment is connected:

- number of dishes
- type of dish electronics (LNC's, Polarizers)
- if an automatic antenna positioner (i.e. SCC 209) is connected
- what kind of TV set you have: Wide-Screen or normal TV set.

3. Select satellite positions:

Selecting and naming satellites and their positions.



INSTALLATION	
1	MENU LANGUAGE
2	CONFIGURATION
3	SELECT SATELLITE POSITIONS
4	SELECT PROGRAMMES
5	TXT PREFERENCE PAGES
6	SET CLOCK
select: 1 - 6, off	

4. Select programmes:

Selecting and naming satellite programmes.

5. TXT preference pages: Storing Teletext preference pages (for D2-MAC satellite programmes).

6. Set clock: Setting DATE and TIME.

LANGUAGE OPTIONS

(Only necessary if menu is not shown in the required language)

- Press 1
- ▷ The LANGUAGE menu appears on the screen.
- Use the number keys to select the required language.
- ▷ The language selected will now be used for all Satellite Tuner menus.
- Return to INSTALLATION**
- Press the **MENU** key.
- ▷ The INSTALLATION menu appears on the screen.

MENU LANGUAGE	
1	ENGLISH
2	DEUTSCH
3	FRANCAIS
4	ESPAÑOL
5	ITALIANO
6	NEDERLANDS
select: 1 - 6, menu, off	

Demonstration mode

The STU 909 has a built-in demonstration mode which is intended for in-shop promotion.

Switching on the demo mode

- Select a D2-MAC programme on the tuner.
- Press the **INSTALL** key on the tuner.
- ▷ A lamp flashes green.
- Press **⏻** on the remote control.

Switching off the demo mode

- Press **OFF**.

INSTALLATION	
1	MENU LANGUAGE
2	CONFIGURATION
3	SELECT SATELLITE POSITIONS
4	SELECT PROGRAMMES
5	TXT PREFERENCE PAGES
6	SET CLOCK
select: 1 - 6, off	

6 Configuration

Installation

Calling up the CONFIGURATION menu

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes green
- Press 2
- ▷ The CONFIGURATION menu appears on the screen.

Automatic Antenna Positioner

- Press 1 and select the situation which applies to you with - or +.
- ▷ NO if you have one or two 'fixed' dishes.
- ▷ YES if you have a rotatable dish and an antenna positioner.

Note:

The STU 909 is designed to work together with an automatic antenna positioner (i.e. SCC 209).

If you use a different antenna positioner, a message will be displayed after each satellite change.

Wide-Screen TV (16:9)

- Press 2 and select the situation which applies to you with - or +.
- ▷ NO, if you have a TV with a normal screen (4:3).
- ▷ YES, if you have a wide-screen TV (16:9).

Number of dish antennae

- Press 3 and select the number of dish antennae you have with - or +.
- ▷ 1, if you have one dish antenna.
- ▷ 2, if you have two dish antennae.

Configuration Antenna 1

For the dish connected to INPUT 1:

- Press 4 .
- ▷ The CONFIGURATION ANTENNA 1 menu appears on the screen.

Polarizer type

Signals from a satellite are transmitted with different polarizations.

There are 4 kinds of polarization: horizontal and vertical linear polarization and left and right hand circular polarization.

For proper reception, you need a device called a polarizer which is located in the LNC assembly of your dish antenna. This must be connected to the polarizer socket at the back panel of your Satellite Tuner so that the right polarization is selected automatically each time you change channels.

LNC (Low Noise Converter)

An LNC is the signal - receiving element in your satellite dish. The tuner has to know which type of LNC is connected.

- From 1-3 select the type corresponding to your configuration

Note:

If you have a DUAL BAND LNC or the LNC is not powered by the satellite tuner, option 3 a 14 V/18 V polariser is not available.

- Press MENU.

INSTALLATION	
1 MENU LANGUAGE	
2 CONFIGURATION	
3 SELECT SATELLITE POSITIONS	
4 SELECT PROGRAMMES	
5 TXT PREFERENCE PAGES	
6 SET CLOCK	
select: 1 - 6, off	

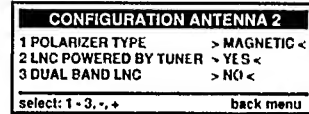
CONFIGURATION	
1 ANTENNA POSITIONER	> NO <
2 WIDE SCREEN TV SET (16:9)	> NO <
3 NUMBER OF DISH ANTENNAE	> 1 <
4 CONFIGURATION ANTENNA 1	
5 CONFIGURATION ANTENNA 2	
6 OVERALL POLARIZER SETTINGS	
7 SET EAST AND WEST LIMITS	
select: 1 - 7, -, + back:menu	



CONFIGURATION ANTENNA 1	
1 POLARIZER TYPE	> MAGNETIC <
2 LNC POWERED BY TUNER	> YES <
3 DUAL BAND LNC	> NO <
select: 1 - 3, -, + back:menu	

Configuration Antenna 2

- Follow the same procedure for the dish connected to INPUT 2 as described under CONFIGURATION ANTENNA 1.



Adjusting the polarizer settings

The polarizer settings are pre-programmed at the factory. However, due to local conditions, it might be necessary to deviate from these settings.

The overall Polarizer Adjustment menu enables you possibility to change the **polarizer settings for all satellite programmes in one go.**

This menu is displayed only if the pulse or magnetic polarizer is selected in the CONFIGURATION ANTENNA menu.

The STU 909 allows you as well to programme the polarizer setting for each satellite programme individually (fine tune: SKEW) - see section 10.

- Press 6
- ▷ The OVERALL POLARIZER SETTINGS menu appears on the screen.
- Select by pressing 1, 2, 3 or 4 the polarisation as indicated in the OSD information at top left.

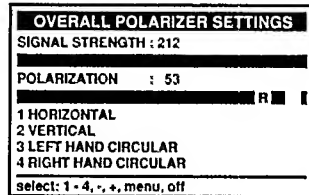
The highest signal strength, and best picture and sound quality, are selected by pressing - or +.

Note:

Using programme $\triangle \nabla$ you can select programmes transmitted in other polarizations.

Using $\leftarrow \rightarrow$ you can select another satellite if required.

- Press MENU.



Rotation limit (East-West)

Note:

Only available if an automatic antenna positioner (i.e. SCC 209) is connected.

To align the dish and set satellite positions, please refer to the instruction manual of the antenna positioner.

Installation of a fixed dish antenna

Before you can select the satellite programmes, make sure that the configuration (see section 6) is in accordance with your equipment:

- ANTENNA POSITIONER: NO.
- NUMBER OF DISHES: 1.
- Set the LNC and Polarizer types information as described in section 6.

Note:

Make sure that your DISH ANTENNA is connected to input 1.

For your convenience, we have pre-programmed your STU 909 with all the satellite TV and radio stations that you can receive (see separate list). However, this list is changing almost daily, and you can obtain the latest information from your dealer.

Select Satellite positions

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes green
- Press 3: SELECT SATELLITE POSITIONS.
- ▷ The SATELLITE POSITIONS menu appears on the screen.
- Press 2: SATELLITE LIST.
- ▷ The SATELLITE LIST menu appears on the screen
- Press 1 and select the satellite wanted from the list with - or + .
- Press the MENU key again.
- ▷ The SATELLITE POSITION menu appears again on the screen.
- Press 3
- ▷ The word **STORED** will flash at the upper right corner of the screen.

If your dish antenna is aligned correctly:

- Press OFF.
- ▷ Your Satellite Tuner is now ready for use.

Note:

If some programmes are missing , or you are not completely satisfied with the picture/sound quality, see section 10.



INSTALLATION		
1	MENU LANGUAGE	
2	CONFIGURATION	
3	SELECT SATELLITE POSITIONS	
4	SELECT PROGRAMMES	
5	TXT PREFERENCE PAGES	
6	SET CLOCK	
select: 1 - 6, off		

SATELLITE POSITIONS		
1	FIND SATELLITE POSITIONS	
2	SATELLITE LIST	
3	STORE SATELLITE DATA	
select: 1 - 3, -, +, menu, off		

SATELLITE LIST		
NAME	NAME	NAME
TELE-X	TV-SAT	
KOPERN2	TDF	
ASTRA A		
ASTRA B		
EUT IIF1		
OLYMPUS		
1	SELECT SATELLITE	
2	NEXT CHARACTER	OLYMPUS
		I
select: 1 - 2, -, +, menu, off		

If your dish antenna needs to be aligned:

- Press OFF
- Press 1
- ▷ The first programme is selected

Align your **dish antenna** until you receive the correct satellite programme.

Note:

If fine tuning is required, or you want to add programmes, see section 10.

If you want to add a new satellite:

If the required satellite is **not** pre-programmed in the factory (see enclosed list), menu item 1 of the SATELLITE POSITIONS menu can help you to align your dish antenna.

- Press 1 of SATELLITE POSITIONS menu.
- ▷ The FIND SATELLITE POSITIONS menu appears on the screen.
- Press 1.
- ▷ The receiver executes a fast scan of all channels. This allows you to detect a satellite while moving the dish.
- Press 2.
- ▷ A programme is searched automatically which allows fine tuning of the dish antenna with the help of the signal strength indicator.
- Press MENU.
- ▷ The SATELLITE POSITIONS menu appears on the screen.

Name of new satellite/change of existing name

- Press 2.
- ▷ The SATELLITE LIST menu appears on the screen.
- Press 1.
- Using - or + , select an empty location or the name you want to change.
- Press 2 and, using - or +, select a letter or digit.
- Press 2 again and, using - or +, select the next letter or digit.
- ▷ In this way select the new satellite name (max. 7 characters).

If you have entered the satellite name:

- Press MENU.
- ▷ The SATELLITE POSITIONS menu appears on the screen.
- Press 3.
- ▷ The word **STORED** will flash at the upper right corner of the screen. Satellite name is stored.
- Press OFF.

SATELLITE POSITIONS	
1	FIND SATELLITE POSITIONS
2	SATELLITE LIST
3	STORE SATELLITE DATA
select: 1 - 3, -, +, menu, off	

FIND SATELLITE POSITIONS	
SIGNAL STRENGTH: 158	
1	SEARCH FOR SATELLITE
2	CHANNEL SEARCH
select: 1 - 2, menu, off	

SATELLITE LIST		
NAME	NAME	NAME
TELE-X	TV-SAT	
KOPERN2	TDF	
ASTRA A		
ASTRA B		
EUT IIF1		
OLYMPUS		
1	SELECT SATELLITE	
2	NEXT CHARACTER	OLYMPUS
select: 1 - 2, -, +, menu, off		

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Installation of two fixed dish antennae

Installation

Before you can select the satellite programmes, make sure that the configuration (see section 6) is in accordance with your equipment:

- ANTENNA POSITIONER: NO.
- NUMBER OF DISHES: 2.
- Set the LNC and Polariser types information as described in section 6.

For your convenience, we have pre-programmed your STU 909 with all the satellite TV and radio stations that you can receive (see separate list). However, this list is changing almost daily, and you can obtain the latest information from your dealer.

For Main dish antenna (1):

Note:

Make sure that your MAIN DISH ANTENNA is connected to input  1.

Select Satellite positions

- Press key MENU
- ▽ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▽ The INSTALLATION menu appears on the screen
- ▽ Lamp ON flashes green
- Press 3.
- ▽ The SATELLITE POSITIONS menu appears on the screen.
- Press 1 and select input >1< with - or +.
- Press 3.
- ▽ The SATELLITE LIST menu appears on the screen.
- Press 1 and select the satellite wanted from the list with - or +.
- Press the MENU key again.
- ▽ The SATELLITE POSITIONS menu appears again on the screen.
- Press 4.
- ▽ The word **STORED** will flash at the upper right corner of the screen.
- ▽ The selected satellite for dish 1 is stored


For aligning your DISH, changing the name of the satellite or adding a new satellite, see section 7.

INSTALLATION	
1 MENU LANGUAGE	
2 CONFIGURATION	
3 SELECT SATELLITE POSITIONS	
4 SELECT PROGRAMMES	
5 TXT PREFERENCE PAGES	
6 SET CLOCK	
select: 1 - 6, off	

SATELLITE POSITIONS	
1 ANTENNA INPUT	> 1 <
2 FIND SATELLITE POSITIONS	
3 SATELLITE LIST	
4 STORE SATELLITE DATA	
select: 1 - 4, -, +, menu, off	

SATELLITE LIST		
NAME	NAME	NAME
TELE-X	TV-SAT	
KOPERIN2	TDF	
ASTRA A		
ASTRA B		
EUT 11F1		
OLYMPUS		
1 SELECT SATELLITE		
2 NEXT CHARACTER	OLYMPUS	
select: 1 - 2, -, +, menu, off		

For second Dish Antenna (2):

Make sure that your second dish antenna is connected to input  2.

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes green
- Press 3.
- ▷ The SATELLITE POSITIONS menu appears on the screen.
- Press 1 and select input >2< with - or +.
- Press 3
- ▷ The SATELLITE NAME menu appears on the screen.
- Press 1 and using - or +, select a letter or digit.
- Press 1 again and, using - or +, select the next letter or digit.
In this way select the new satellite name (max. 7 characters).
- Press MENU.
- ▷ SATELLITE POSITIONS menu appears on the screen.
- Press 4
- ▷ The word **STORED** will flash at the upper right corner of the screen.
- ▷ The selected satellite for DISH 2 is stored.

For alignment of DISH ANTENNA, please refer to section 7.

INSTALLATION	
1 MENU LANGUAGE	
2 CONFIGURATION	
3 SELECT SATELLITE POSITIONS	
4 SELECT PROGRAMMES	
5 TXT PREFERENCE PAGES	
6 SET CLOCK	
select: 1 - 6, off	

SATELLITE POSITIONS	
1 ANTENNA INPUT	> 2 <
2 FIND SATELLITE POSITIONS	
3 SATELLITE LIST	
4 STORE SATELLITE DATA	
select: 1 - 4, -, +, menu, off	

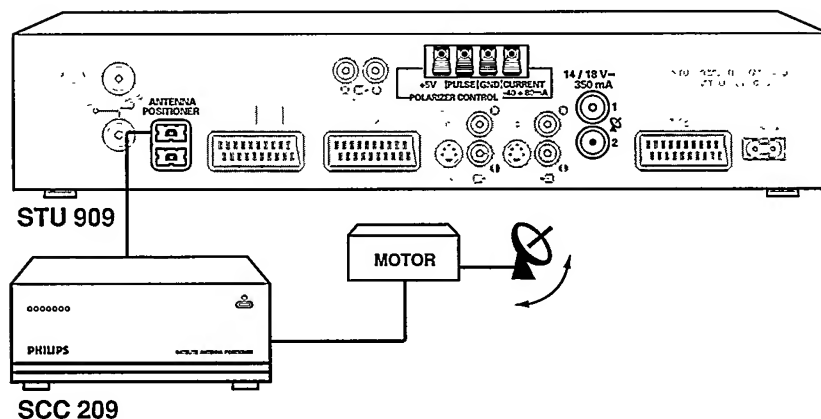
SATELLITE NAME	
1 NEXT CHARACTER	TDF 1
select: 1, -, +, menu, off	

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Installation of a rotatable dish antenna

Your STU 909 multi standard satellite tuner is equipped to automatically control a rotatable dish antenna.

The automatic antenna positioner (i.e. SCC 209) can be connected to connection 22 as indicated in the drawing below.



Before you can select the satellite programmes, make sure that the configuration (see section 6) is in accordance with your equipment.

- ANTENNA POSITIONER: YES
- NUMBER OF DISHES: 1
- Set the LNC and Polariser types information as described above.
- Make sure that the antenna positioner (i.e. SCC 209) is connected properly and switched ON.

Note:

Make sure that your dish antenna is connected to input 1.

After placing your rotatable dish you must first set the rotation limits (see section 6: Rotation Limit, East-West)

To align the dish and set satellite positions, please refer to the instruction manual of the antenna positioner.




Installation of Satellite Programmes

This section describes how to select and store new satellite programmes, and how existing programmes can be changed or deleted.

The STU 909 can receive D2-MAC as well as PAL satellite signals. Generally the system selection is performed automatically. The 'Sound preference' menus are different for D2-MAC and PAL.

Note:

In the INSTALL mode it is always possible to remove the menus temporarily from the screen:

- Press the  key on the remote control.
- ▷ The menu disappears temporarily from the screen (3 sec).

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes green



INSTALLATION	
1	MENU LANGUAGE
2	CONFIGURATION
3	SELECT SATELLITE POSITIONS
4	SELECT PROGRAMMES
5	TEXT PREFERENCE PAGES
6	SET CLOCK
select: 1 - 6, off	



Note:

It is assumed that the dishes and satellites are installed and that you have selected the correct satellite antenna input 1 or 2 under SELECT SATELLITE POSITIONS. If not, first follow the instructions in sections 6, 7, 8 and 9.

- Press 4.
- ▷ The PROGRAMMES menu appears on the screen.

PROGRAMMES	
1	FIND PROGRAMMES
2	PROGRAMME LIST
3	SOUND PREFERENCE
4	STORE
select: 1 - 4, menu, off	

With this menu on the screen you can select all installed satellites with the help of the   keys on your remote control (only for two dish antennae or rotatable dish).

With the help of the   keys on the remote control, you can select all the programmes from the selected satellite.

- Press 1.
- ▷ The FIND PROGRAMMES menu appears on the screen.
- Press 1 and using - or + select the LNC band used:
 - I - Low band (14 V).
 - II - High band (18 V)

FIND PROGRAMMES	
1	LNC FREQ. BAND
2	POLARIZATION SETTINGS
3	SEARCH 1 055 GHz
4	DIRECT FREQUENCY ENTRY
5	SYSTEM >D2-MAC<
6	DESCRAMBLER SETTINGS
select: 1 - 6, -, +, menu, off	

Note:

Band selection is only possible when a Dual-band LNC is present and selected in the configuration menu. (See section 6)

- Press 2 (or 1 if dual-band LNC is 'NO').
- ▷ The POLARIZER SETTINGS menu appears on the screen.
- Select the polarisation required by pressing 1 to 4.
- Fine-tune (skew) the polarisation using - or +.
- ▷ The signal strength indicator helps you to find the maximum signal strength.
- Press MENU.

POLARIZER SETTINGS	
SIGNAL STRENGTH : 212	
POLARIZATION	: 53
	0
1	HORIZONTAL
2	VERTICAL
3	LEFT HAND CIRCULAR
4	RIGHT HAND CIRCULAR
select: 1 - 4, -, +, menu, off	

Note:

In case you are using a magnetic polarizer, you might need to adjust the polarizer settings ('skew') for each programme.
or:

In case you have a 14V/18V polarizer:

- Select HORIZONTAL or VERTICAL by using - or +.

POLARIZATION	
POLARIZATION	> HORIZONTAL <
select: -, +, menu, off	

Search:

- Press 3 (or 2 if dual-band LNC is 'NO').
- ▷ An automatic search is performed and the scan stops automatically at the first detected programme.

Programmes can be found via an automatic search or via DIRECT FREQUENCY ENTRY (Setting the output frequency of the LNC in MHz).

Direct Frequency Entry:

- Press 4 (or 3 if dual-band LNC is 'NO').
- ▷ The DIRECT FREQUENCY ENTRY menu appears on the screen.
- By using 0-9 the output frequency of the LNC can be entered directly (only the first three digits).
- Press **MENU**.
- ▷ The FIND PROGRAMMES menu appears on the screen.

System recognition is performed automatically (D2-MAC or PAL).
Misinterpretation can occur with scrambled signals.
Manual override is possible:

- Press 5 (or 4 if dual-band LNC is 'NO').
- ▷ Select D2-MAC or PAL by - or +.

External PAL Decoders/Descramblers can be connected to the Decoder/Descrambler socket. See the enclosed booklet 'Connecting descramblers and Pay-TV decoders to your Philips Satellite receiver'.

To change the setting

- Press 6 (or 5 if dual-band LNC is 'NO').
- ▷ The DESCRAMBLER SETTINGS menu appears on the screen.
- Press 1.
- Select AUDIO INTERNAL, EXTERNAL or AUTOMATIC by using - or +.
- Press 2.
- Select VIDEO INTERNAL, EXTERNAL or AUTOMATIC by using - or +.

Note:

Internal means audio/video processing in receiver.

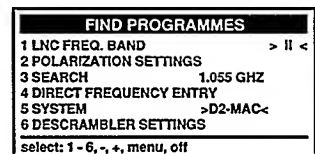
External means audio/video processing via external decoder/descrambler.

Automatic means that a connected decoder/descrambler can switch automatically if this box recognises the signal.

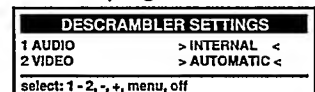
- Press **MENU**
- ▷ The FIND PROGRAMMES menu appears on the screen.
- Press **MENU**.
- ▷ The PROGRAMMES menu appears on the screen.

Before you can store the selected programme, you need to:

- Allocate this programme to a programme number.
- If you require, enter the programme name.
- Select the preferred sound channel for this programme.
- Activate noise reduction if required (for D2-MAC only).



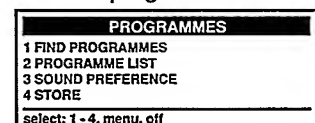
For PAL programmes



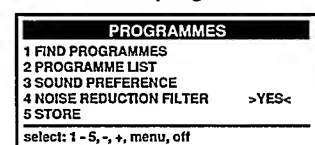
For D2 MAC programmes



For PAL programmes



For D2 MAC programmes



Programme number and name:

- Press 2 .
- ▷ The PROGRAMME LIST menu appears on the screen.
- Press 1.
- By using - or + select the require programme number.
- Press 2.
- Press - or + to select the first letter of the programme name.
- Press 2 again and, using - or + , select the next letter.
- Continue until you have written the new satellite name (max. 7 characters).
- Press the MENU key.
- ▷ The PROGRAMMES menu appears on the screen.

PROGRAMME LIST : ASTRA		
NO	NAME	NO. NAME
1	SCSPORT	13 SKY 1
3	RTL+	14 SKY MOVIE
4	SCSAT 3	15 SKY NWS
7	EUSPORT	18 PRO 7
8	SAT 1	19 MTV
12	CHICHAN	20 RADIO 10
1	PROGRAMME NUMBER.	15
2	NEXT CHARACTER	RA CL A
3	NEXT LIST	
4	DELETE PROGRAMME NUMBER	
5	EXECUTE DELETE	
select: 1 - 5, -, +, menu, off		

Sound Preference

For D2-MAC Programmes:

If you make no selection, the programmed menu language will automatically be used.

Selecting of sound preference:

- Press 3.
- ▷ The SOUND PREFERENCE menu appears on the screen.
- Press 0-8 to make your preferred selection.

You can store a radio programme by:

- Press 9.
- Select RADIO with - or +.
- ▷ Your TV screen will be blanked and the message RADIO SOUND appears

Note:

The language selected will also be used for subtitles.

- Press **MENU**
- ▷ The PROGRAMMES menu appears on the screen.

Select noise reduction for the picture if required:

- Press 4.
- Select **yes** or **no** with - or +.

You can store all the settings as follows:

- Press 5.
- ▷ The word **STORED** will flash at the right upper corner of the screen.

For PAL programmes:

Selection of sound preferences

- Press 3.
- ▷ The SOUND PREFERENCE menu appears on the screen.
- Press 1-2 and make your selection using - or +.
- You can store a radio programme:
- Press 3
- Select TV SOUND or RADIO with - or +.
- ▷ If you select RADIO, your screen will be blanked and the message RADIO SOUND appears.
- Press MENU.
- ▷ The PROGRAMMES menu appears on the screen.

For D2 MAC programmes

PROGRAMMES	
1	FIND PROGRAMMES
2	PROGRAMME LIST
3	SOUND PREFERENCE
4	NOISE REDUCTION FILTER
5	STORE
select: 1 - 5, -, +, menu, off	

SOUND PREFERENCE	
0	ENGLISH
1	GERMAN
2	FRENCH
3	SWEDISH
4	NORWEGIAN
5	SPANISH
6	ITALIAN
7	DUTCH
8	DANISH
9	SOUND
select: 0 - 9, -, +, menu, off	

For PAL programmes

SOUND PREFERENCE	
1	STEREO
2	LANGUAGE
3	SOUND
select: 1 - 3, -, +, menu, off	

You can store all the settings as follows:

- Press 4 .
- ▷ The word **STORED** will flash at the right upper corner of the screen

Further programmes can be stored by repeating the above procedure.

You can leave the **INSTALL** menu by:

- Press **OFF**

If you want to change a pre-programmed name:

- Switch on your **SATELLITE TUNER**.
- ▷ Lamp ON lights **green**.
- Select programme to be changed with P ▽△.
- Press key **MENU**
- ▷ The **MAIN MENU** menu appears on the screen
- Select **INSTALLATION**
- ▷ The **INSTALLATION** menu appears on the screen
- ▷ Lamp ON flashes **green**
- Press 4.
- ▷ The **PROGRAMMES** menu appears on the screen.
- Press 2 .
- ▷ The **PROGRAMME LIST** menu appears on the screen.
- Press 2.
- Press - or + to select the first letter of the programme name.
- Press 2 again and, using - or + , select the next letter.
- Continue until you have written the new satellite name (max. 7 characters).
- Press **MENU**.
- ▷ The **PROGRAMMES** menu appears on the screen
- Press **STORE 4 or 5**.
- ▷ The word **STORED** will flash at the right upper corner of the screen
- Press **OFF**.
- ▷ Your receiver is now ready for normal use.



PROGRAMME LIST : ASTRA		
NO. NAME	NO. NAME	NO. NAME
1 SCSPORT	13 SKY 1	21 RA LUX
3 RTL+	14 SKY MOVIE	23 RA SKY
4 SCSAT 3	15 SKY NWS	
7 EUSPORT	18 PRO 7	
8 SAT 1	19 MTV	
12 CHICHAN	20 RADIO 10	
1 PROGRAMME NUMBER: 15		
2 NEXT CHARACTER RA CL ^		
3 NEXT LIST		
4 DELETE PROGRAMME NUMBER:		
5 EXECUTE DELETE		
select: 1 - 5, -, +, menu, off		

If you want to delete a pre-programmed programme:

- Switch ON receiver.
- ▷ ON lamp lights **green**.
- Select a programme **not** to be deleted with P ▽△ on the same satellite.
- Press key **MENU**
- ▷ The **MAIN MENU** menu appears on the screen
- Select **INSTALLATION**
- ▷ The **INSTALLATION** menu appears on the screen
- ▷ Lamp ON flashes **green**
- Press 4 .
- ▷ The **PROGRAMMES** menu appears on the screen.
- Press 2.
- ▷ The **PROGRAMME LIST** menu appears on the screen.
- Press 4 .
- Select the programme number to be deleted with - or +.
- Press 5.
- ▷ The programme is deleted.
- Press **OFF**.

Store teletext preference pages (only D2-MAC)

Storing personal preference pages

You can store up to 20 frequently-used teletext pages.

- Select a satellite and a programme with D2-MAC teletext of which you want to store your favourite teletext pages.
- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes **green**
- Press 5 .
- ▷ The TXT PREFERENCE PAGES menu appears on the screen.
- Press 1.
- ▷ The SATELLITE PROGRAMME PAGE menu appears on the screen.
- Select the first digit for the preferred page number.
- ▷ The name of the chosen satellite and programme appears on the screen.
- Press the two other digits to select the preferred page.
- Repeat this procedure to store the other pages you want.

INSTALLATION	
1	MENU LANGUAGE
2	CONFIGURATION
3	SELECT SATELLITE POSITIONS
4	SELECT PROGRAMMES
5	TXT PREFERENCE PAGES
6	SET CLOCK
select: 1 - 6, off	

TXT PREFERENCE PAGES	
1	SELECT
2	STORE
select: 1 - 2, menu, off	

SATELLITE	PROGRAMME	PAGE
TVSAT	SAT 1	101
TVSAT	SAT 1	345
>		<
select: 0 - 3, -, +, menu, off		

Storing data

- Press the MENU key.
- ▷ The TXT PREFERENCE PAGES menu appears on the screen.
- Press 2.
- ▷ The word **STORED** will flash at the right upper corner of the screen
- Press the OFF key.

Adding/Inserting pages

(If the memory is not full)

The SATELLITE PROGRAMME PAGE menu must be on the screen.


- Use - or + to select an empty line or position where you want to insert a line of new data.
- ▷ A bar indicates the line selected.
- Enter the page number.
- The data under the line chosen moves 1 position downwards.

Repeat the procedure for **Storing data** above.

Changing/erasing pages

(If the list is full.)

The SATELLITE PROGRAMME PAGE menu must be on the screen.

- Use - or + to select the line which contains the data you want to change or erase.
- A bar indicates the line selected.
- Press  .
- The data on the line are now erased
- Enter new data if required.

12 Setting time/date



Installation

- Press key MENU
- ▷ The MAIN MENU menu appears on the screen
- Select INSTALLATION
- ▷ The INSTALLATION menu appears on the screen
- ▷ Lamp ON flashes **green**
- Press 6.
- ▷ The SET CLOCK menu appears on the screen.
- Press 1.
- ▷ The setting for the **year** changes colour.
- Press - or + to set the year.
- Press 2.
- ▷ The setting for the **month** changes colour.
- Press - or + to set the month.
- Press 3.
- ▷ The setting for the **day** changes colour.
- Press - or + to set the day.
- Press 4.
- ▷ The setting for the **hour** changes colour
- Press - or + to set the hour.
- Press 5.
- ▷ The setting for **minutes** changes colour.
- Press - or + to set the minutes.

Switching OFF the menu

- Press the OFF key.

Call up the clock settings

- Press .
- Press  to remove the clock settings from the screen.

Note:

For proper functioning of the clock, the satellite tuner needs always to be connected to the mains (interruption of several hours is allowed).

INSTALLATION	
1 MENU LANGUAGE	
2 CONFIGURATION	
3 SELECT SATELLITE POSITIONS	
4 SELECT PROGRAMMES	
5 TXT PREFERENCE PAGES	
6 SET CLOCK	
select: 1 - 6, off	

SET CLOCK	
	DATE 1991 05 15
	TIME 20.43
1 YEAR	
2 MONTH	
3 DAY	
4 HOURS	
5 MINUTES	
select: 1 - 5, -, +, menu, off	



13 Trouble Shooting

No picture

Switch your TV to the external input, as it may not switch automatically.
Are all connectors connected tightly in the sockets?
Is the TV set switched on?
Is the configuration chosen in the configuration menu, according to the connected equipment? If in doubt, consult your dealer.

Did you press the correct keys on the remote control?
Did you chose the right LNC band (in case you have a dual band LNC)?
Did you choose the right polarisation for the desired programme?
Check the satellite dish equipment outside.
Is the selection of the descrambler input correct?

Poor picture

Adjust the signal strength with the polarisation.
Did you choose the right frequency?

Sound

Did you choose the right sound option?
You can optimise the sound quality with the polarisation setting.

Menu

Did you select the wrong menu? Once more, press MENU or MENU OFF to exit from the menu.

Connections

Check whether your peripheral equipment is properly connected.
Have you switched on the peripheral equipment?

Pay TV

I have forgotten my secret code:
- contact your programme provider.
My card is inserted properly yet there are no on screen displays for the programme I want to watch:
- verify that you are tuned to a EuroCrypt programme.
The CHECK CARD message is on the screen:
- verify that your card is a EuroCrypt Smart Card and that the contacts are clean.
The programme which I am entitled to watch scrambles every now and then:
- the broadcast signal may be weak. Optimize your antenna position, if possible.

No solution

Switch your satellite tuner off and then on again.
NEVER attempt to repair a defective tuner yourself. Check with your dealer when nothing helps or when:
- error messages appear on the screen
- the lamp in the front start blinking without you having pressed any key on the remote control.



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- financièrement, selon des modalités précises définies entre **PHILIPS** et les points de vente.

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Service consommateurs **PHILIPS**:

B.P. 49-77423 MARNE LA VALLE CEDEX 2

Tel.: (1) 64 80 54 54 - Minitel 3615 code: **PHILIPS**

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Type et N° de Série	Date de vente:
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